

adsorbent thus refers to adsorbent containing residual  $H_2S$  that is adsorbed irreversibly. From the  $C_3H_6$  data (Figure 9), we see that the capacity has diminished only slightly.

Sorbent for purification of 1-Hexene by removal of benzene

See Figure 15.

Page 15, replace the paragraph on lines 14-19 with the following:

Effects of  $H_2S$  on Ag-Y zeolite for 1,3-Butadiene/1-Butene Adsorption

Some  $H_2S$  is adsorbed on Ag-Y irreversibly. However, purification capability of Ag-Y was maintained by shifting the adsorption of both adsorbates to higher pressure. See Figures 10-14.

REMARKS

Please enter this voluntary preliminary amendment. It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. Consideration of the application as amended is requested.

If the Examiner feels that prosecution of the present application may be expedited by way of an Examiner's amendment, the Examiner is cordially invited to contact the Applicants' attorney at the telephone number listed below.

Respectfully submitted,

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**VERSION OF CLAIM AMENDMENTS WITH MARKINGS**  
**TO SHOW CHANGES MADE**

Page 7, line 24, after "constants" insert --(1/s)--.

Page 7, line 37, delete "before and".

Page 15, line 1, delete "AgNO<sub>3</sub>/SiO<sub>2</sub>" and insert --AgNO<sub>3</sub>/SiO<sub>2</sub>--.

Page 15, line 14, delete "H<sub>2</sub>S on AgY" and insert --H<sub>2</sub>S on Ag-

Y--.